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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,431	09/11/2003	Geun-Yong Park	1349.1307	4099
21171 STAAS & HAI	7590 01/12/2007	•	EXAMINER	
SUITE 700			PHAM, HAI CHI	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
	,	•	2861	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/659,431	PARK, GEUN-YONG			
Office Action Summary	Examiner	Art Unit			
	Hai C. Pham	2861 ·			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 17 Oc	ctober 2006.				
	action is non-final.				
·-	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
· _					
 4) Claim(s) 2-5,7-10,12-15,17-26 and 28-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 					
5)⊠ Claim(s) <u>2-5,7-10,12-15,17-26 and 28-33</u> is/are allowed. 6)⊠ Claim(s) <u>34</u> is/are rejected.					
. 7) Claim(s) is/are objected to.					
·	election requirement				
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers		·			
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. ☐ Certified copies of the priority documents have been received.					
Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) TInterview Summarv	4) Interview Summary (PTO-413)			
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application			
Paper No(s)/Mail Date 6) [_] Other:					

Office Action Summary

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa et al. in view of Uchiyama et al. (US 6,278,471).

Ichikawa et al. discloses in Figs. 4A-4B a sub-assembly of a laser scan unit (scanning unit 2) comprising a hinge portion (threaded holes 42-1 and 42-2) provided at a first side of the scan unit to pivotably dispose the laser scan unit on a printer body (printer frames 30-1, 30-2), a hinge supporting portion (screws 44-1, 44-2) that supports the hinge, and an adjusting portion (not shown) on a second side of the laser scan unit opposite to the first side to adjust an amount by which the laser unit pivots (the scanning unit 2 pivots about the hinge or axes of the screws 44-1, 44-2 in the direction Y-Y') (col. 3, line 43 to col. 4, lines 8).

Ichikawa et al. fails to teach the hinge portion being formed as a groove.

Uchiyama et al. discloses a scanning unit (LSU 227a) provided with grooves in the form of arch-shaped notches (306b and 307b) supported by the supporting member (300) (Figs. 8-9).

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It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the hinge portion of the device of Ichikawa et al. in the form of a V-shaped groove as taught by Uchiyama et al. The motivation for doing so would have been to allow the scanning unit to easily pivot around the axis of the supporting members with minimum friction.

Allowable Subject Matter

3. Claims 2-5, 7-10, 12-15, 17-26 and 28-33 are allowed.

Response to Arguments

4. Applicant's arguments with respect to claim 34 have been considered but are moot in view of the new grounds of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C. Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Haillitham

HAI PHAM PRIMARY EXAMINER

January 5, 2007